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SERIAL NUMBER	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.
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08/252, 710 06/02/94 RIVIERE

I 9141113
EXAMINER

18M2/0406

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ART UNIT

PAPER NUMBER

6

1804
DATE MAILED:

04/06/95

This is a communication from the examiner in charge of your application.
COMMISSIONER OF PATENTS AND TRADEMARKS*FOR RESTRICTION PURPOSES ONLY* This application has been examined Responsive to communication filed on _____ This action is made final.A shortened statutory period for response to this action is set to expire _____ month(s), 30 days from the date of this letter.
Failure to respond within the period for response will cause the application to become abandoned. 35 U.S.C. 133**Part I THE FOLLOWING ATTACHMENT(S) ARE PART OF THIS ACTION:**

1. Notice of References Cited by Examiner, PTO-892.
2. Notice of Draftsman's Patent Drawing Review, PTO-948.
3. Notice of Art Cited by Applicant, PTO-1449.
4. Notice of Informal Patent Application, PTO-152.
5. Information on How to Effect Drawing Changes, PTO-1474..
6. _____

Part II SUMMARY OF ACTION1. Claims 1 - 34 are pending in the application.

Of the above, claims _____ are withdrawn from consideration.

2. Claims _____ have been cancelled.3. Claims _____ are allowed.4. Claims _____ are rejected.5. Claims _____ are objected to.6. Claims 1 - 34 are subject to restriction or election requirement.7. This application has been filed with informal drawings under 37 C.F.R. 1.85 which are acceptable for examination purposes.8. Formal drawings are required in response to this Office action.9. The corrected or substitute drawings have been received on _____. Under 37 C.F.R. 1.84 these drawings are acceptable; not acceptable (see explanation or Notice of Draftsman's Patent Drawing Review, PTO-948).10. The proposed additional or substitute sheet(s) of drawings, filed on _____, has (have) been approved by the examiner; disapproved by the examiner (see explanation).11. The proposed drawing correction, filed _____, has been approved; disapproved (see explanation).12. Acknowledgement is made of the claim for priority under 35 U.S.C. 119. The certified copy has been received not been received been filed in parent application, serial no. _____; filed on _____.13. Since this application appears to be in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under Ex parte Quayle, 1935 C.D. 11; 453 O.G. 213.14. Other**EXAMINER'S ACTION**

Serial No. 08/252,710
Art Unit 1804

-2-

Restriction to one of the following inventions is required under 35 U.S.C. § 121:

I. Claims 1-31, drawn to retroviral vectors, classified in Class 435, subclass 320.1.

II. Claims 32 and 33, drawn to methods of modifying hematopoietic stem cells and treating hematologic disease, classified in Class 424, subclass 93.21.

III. Claim 34, drawn to synthetic vascular grafts, classified in Class 424, subclass 93.21.

The inventions are distinct, each from the other because of the following reasons:

Inventions of Group I and Group II are related as product and process of use. The inventions can be shown to be distinct if either or both of the following can be shown: (1) the process for using the product as claimed can be practiced with another materially different product or (2) the product as claimed can be used in a materially different process of using that product (M.P.E.P. § 806.05(h)). In the instant case the retroviral vectors can be used to introduce a gene of interest into cells in culture to express biologically important proteins, and not necessarily in gene therapy procedure of Group II which involve modification of stem cells.

In addition, the inventions of Group I and III are related, but

Serial No. 08/252,710
Art Unit 1804

-3-

are distinct products in the art. The product of Group III is made using the product of Group I. Group I has an alternative use for introducing a gene of interest into cells in culture to express biologically important proteins, and not necessarily for producing the product of Group III. In addition, the product of Group III involves the use of "genetically modified" endothelial cells. These cells may be modified by the introduction of nucleic acid through liposomes and not necessarily by the use of recombinant retroviral vectors of Group I.

Groups II and III are independent and distinct inventions in the art, capable of supporting separate patents. Group II is drawn to a method of modifying hematopoietic stem cells and using these cells in treatment of hematologic disease. Group III is drawn to a vascular graft comprising modified endothelial cells. The type cells modified and the specific uses of those cells are distinct in the art for Groups II and III.

Because these inventions are distinct for the reasons given above and have acquired a separate status in the art as shown by their different classification or subject matter, as well as their considerations in the art being distinct, restriction for examination purposes as indicated is proper.

Applicant is advised that the response to this requirement to be

Serial No. 08/252,710
Art Unit 1804

-4-

complete must include an election of the invention to be examined even though the requirement be traversed.

Applicant is reminded that upon the cancellation of claims to a non-elected invention, the inventorship must be amended in compliance with 37 C.F.R. § 1.48(b) if one or more of the currently named inventors is no longer an inventor of at least one claim remaining in the application. Any amendment of inventorship must be accompanied by a diligently-filed petition under 37 C.F.R. § 1.48(b) and by the fee required under 37 C.F.R. § 1.17(h).

Papers related to this application may be submitted to Group 1800 by facsimile transmission. Papers should be faxed to Art Unit 1804 via the PTO Fax Center located in Crystal Mall 1. The faxing of such papers must conform with the notice published in the Official Gazette, 1096 OG 30 (November 15, 1989). The CM1 Fax Center number for Art Unit 1804 is (703) 308-4312.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to J. F. Railey, whose telephone number is (703) 308-0281. The examiner can normally be reached on Monday-Thursday from 7:30 AM-6:00 PM.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Jacqueline Stone, can be reached at (703) 308-3153. The fax phone number for Art Unit 1804 is (703) 308-4312.

Any inquiry of a general nature or relating to the status of this application should be directed to the Group receptionist whose telephone number is (703) 308-0196.

Stone

JACQUELINE M. STONE
SUPERVISORY PATENT EXAMINER
GROUP 1800

Johnny F. Railey II, Ph.D.
March 29, 1995